

LAPKIN, V.N.

Installation of reinforced concrete poles for electric transmission lines. Transp. stroi. 12 no. 5:17-18 My '62. (MIRA 15:6)

1. Nachal'nik Planovo-proizvodstvennogo otdela SMP-240  
Dneprotransstroya.

(Electric lines—Poles and towers)  
(Concrete products)

27.12.20

33315  
S/560/61/000/010/009/016  
D298/D302

AUTHORS: Glembotskiy, Ya. L., Abelyeva, E. A., Lapkin,  
Yu. A., and Parfenov, G. P.

TITLE: The effect of cosmic flight factors on the  
occurrence frequency in *Drosophila Melano-*  
*gaster* of recessive lethal mutations in the  
X-chromosome

SOURCE: Akademiya nauk SSSR. *Iskusstvennye sputniki*  
Zemli. no. 10. Moscow, 1961, 61-68

TEXT: Reference is made to early studies of mutagenic changes  
under the effects of ionizing radiation. Experiments on yeast  
and drosophila pointed out the minimal effect of cosmic radia-  
tion on the natural mutation process. Further studies on droso-  
phila confirmed the insignificance of cosmic radiation in spon-  
taneous mutation. More recent studies have been undertaken by  
the authors on two strains of *Drosophila Melanogaster*--the  $\Delta$ -32

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D298/D302

The effect of cosmic...

(D-32) and D-18 (D-18)--to determine the mutagenic effect after a cosmic flight on the organism. The flight of the 2nd Sputnik, lasting about 24 hr. and conducted at a height of 300 km, was used to study the effects of cosmic radiation on the heredity of the drosophila. Two types of tests were carried out: (1) to determine the occurrence frequency of recessive lethal mutations in the X-chromosome (sex-linked), and (2) to determine the occurrence frequency of dominant lethal mutations causing death in the early developmental stage of heterozygous organisms in these mutations. The mutability of the two spermatogenic stages was compared--that of the spermatid and that of the mature sperms. The frequency of induced mutations was studied, depending on the frequency of spontaneous mutations. Cross-breeding of the flies which underwent cosmic flight was performed in August 1961 to determine the sex-linked recessive lethals. The Muller-5 method was used for this purpose. The  $F_2$  (second generation) culture percentage with no grey-red-eyed females was taken

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as index of the occurrence frequency of recessive lethal mutations in the X-chromosomes of the females which had been in cosmic flight. In both strains (D-32 and D-18), it was found that the mutagenic effect is characterized by a statistically valid increased frequency of sex-linked recessive lethal mutations, whereby the D-18 strain (with a higher spontaneous mutability) appeared to be the more sensitive to mutagenic effect. The dotted nature of the induced mutations (20 tested cytologically) and the elevated frequency of mutation of the spermatid, as compared to the sperms, indicates their possible stipulation by cosmic radiation. It is emphasized that an accurate determination cannot be made of the role played by cosmic radiation in the mutagenic effect noted during relatively short cosmic flights. Further experiments to clarify the mutagenic effect of vibrations, acceleration, and weightlessness should be carried out. There are 1 figure, 1 table and 11 references: 2 Soviet-bloc and 9 non-Soviet-bloc. The references to the English-language publications read as follows: O. G. Fahmy, X

Card 3/4

The effect of cosmic...

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D/560/61/000/010/009/016  
D298/D302

M. I. Fahmy, Genet. Res., 1, 173, 1960; P. T. Ives, Proc. Nat.  
Acad. Sci. USA, 45, N 2, 1959.

SUBMITTED: May 3, 1961

X

Card 4/4

GLEMBOTSKIY, Ya.L.; ABELEVA, E.A.; LAPKIN, Yu.A.

Effect of fractionation of the gamma-ray dose on mutation frequency  
in spermatids of *Drosophila melanogaster*. Radiobiologija 1 no.1:  
119-122 '61. (MIRA 14:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.  
(GAMMA RAYS—PHYSIOLOGICAL EFFECT)  
(ZOOLOGY—VARIATION)

27.12.20

42696

S/747/62/000/000/020/025  
D243/D307

AUTHORS: Glembotskiy, Ya. L., Abeleva, E. A. and Lapkin, Yu. A.

TITLE: The effect of small doses of ionizing radiation on the frequency of occurrence of sex-linked, recessive, lethal mutations in Drosophila

SOURCE: Radiatsionnaya genetika; sbornik rabot. Otd. biol. nauk AN SSSR. Moscow, Izd-vo AN SSSR, 1962, 300-311

TEXT: The preliminary results are given of experiments carried out from 1959 to March 1961, to study the effect of 20 r doses of radiation on the frequency of sex-linked, recessive lethals, in relation to a) type of radiation-  $\gamma$  rays or high speed neutrons; b) radiation intensity - single or repeated doses; c) gamete development - mature sperm or spermatids; d) interstrain differences in spontaneous mutation rate. It is stated that little work has been done on the effects of sub-25 r doses, especially as regards the existence of a threshold and accumulative effects. The experiments were carried out on  $\Delta$ -18 and  $\Delta$ -32 (D-18 and D-32) Drosophila lines, dif-

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D243/D307

The effect of small ...  
ferring considerably in the spontaneous rate of mutation. Spontaneous and induced lethals were detected by the Muller-5 method.  $^{60}\text{Co}$   $\gamma$  rays were delivered at 0.93 r/min. Experiments with high-speed neutrons began in May 1960, using a 1000 kv reactor, the dose intensity being 115 r/hr. The results refer only to experiments with D-32 line. The authors found that 5-r doses of  $\gamma$  radiation increased the frequency of recessive lethals in sperm and spermatids and repeated  $\gamma$  radiation produced a cumulative, mutagenic effect. The relative frequency of recessive lethals per radiation induced by repeated 5 r single doses. The mutagenic effect of high-speed neutrons is 1 1/2 - 2 times greater than that of  $\gamma$  rays. Spermatids had a higher mutation rate than sperm, with both types of radiation. No threshold effect was demonstrated and it is suggested that, should a threshold be detected, it will be specific to the type of radiation, type of mutation, stage of gametogenesis, and the organism. The danger to human germinal cells of low doses of  $\gamma$  rays, and especially, high-speed neutrons is stressed. There are 3 tables.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moskva (Institute of Biological Physics, AS USSR, Moscow)

Card 2/2

GLEMBOTSKIY, Ya.L.; ABELEVA, E.A.; LAPKIN, Yu.A.; PARFENOV, G.P.

Effect of space flight factors on the frequency of the appearance  
of recessive lethal mutations in the x-chromosome of *Drosophila*  
*melanogaster*. Probl.kosm.biol. 1:219-231 '62. (MIRA 15:12)  
(SPACE FLIGHT—PHYSIOLOGICAL EFFECT)  
(VARIATION (BIOLOGY))

ARELEVÀ, E.A.; PARFENOV, G.P.; LAPKIN, Yu.A.

Crossing-over of *Drosophila Melanogaster* males caused by the  
space flight factors. *Isk.sput.Zem.* no.13:119-122 '62.

(MIRA 15:7)

(Space biology)

ABELEVA, E.A.; LAPKIN, Yu.A.

Interdependence of the frequency of dominant lethal mutation and the dosage of radiation by fast neutrons in the spermatids of *Drosophila*.  
Radiobiologija 2 no.2:293-297 '62. (MIRA 15:4)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.  
(RADIATION—DOSAGE) (FRUIT FLIES)

GLEMBOTSKIY, Ya.L.; LAPKIN, Yu.A.; PARFENOV, G.P.; KAMSHILOVA, Ye.M.

Effect of cosmic flight factors on the frequency of occurrence  
of sex-interlinked recessive lethal mutations in *Drosophila*  
*melanogaster*. Kosm. issl. 1 no.2:327-334 S-0 '63.

(MIRA 17:4)

GLEMBOTSKIY, Ya.L.; PARFENOV, G.P.; LAPKIN, Yu.A.

Influence of space flight factors on the frequency of occurrence  
of sexlinked recessive lethal mutations in *Drosophila melanogaster*. Isk.sput.Zem. no.15:113-119 '63. (MIRA 16:4)  
(Space biology)

L 11243-63

EWT(1)/EWT(n)/BDS--AFFTC/AMD/ASD--AR/K

ACCESSION NR: AP3001087

S/0205/63/003/003/0420/0421

56

55

AUTHOR: Ibeleva, E. A.; Lapkin, Yu. A.TITLE: Frequency dependence of emergence of recessive sex-linked lethal mutations in spermatogenesis of Drosophila on fast neutron dose /9

SOURCE: Radiobiologiya, v. 3, no. 3, 1963, 420-421

TOPIC TAGS: mutations, fast neutron dose

ABSTRACT: Earlier investigations conducted to determine the frequency dependence of the emergence of dominant lethal mutations on fast neutron dose as compared with gamma rays did not offer conclusive results. Therefore, recessive sex-linked mutations were used in this study. Male Drosophila were irradiated with an IRT-1000 reactor in doses of 1000 and 2000 rad. Absorbed fast neutron doses were measured by an ionization method with a dose power of 725 rad/min. Comparison of data with earlier studies indicates that the relationship of mutation frequencies in spermatids and sperms with neutron irradiation of 1000 rad dose is approximately the same as for gamma radiation of 1000 r. Fast neutron radiation for sex-linked lethal mutations is approximately one and a half times more effective than gamma radiation but the general nature of regularity is entirely analogous. Orig. art. has: 1

Card 1/2

L 112b3-63

ACCESSION NR: AP3001067

table.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow. (Institute of Biological Physics, AN SSSR)

SUBMITTED: 06Feb63

DATE ACQD: 01Jul63

ENCL: 00

SUB CODE: 00

NO REF Sov: 002

OTHER: 002

ch/wm  
Card 2/2

KUZIN, A.M.; GLEMBOTSKIY, Ya.L.; LAPKIN, Yu.A.; KALENDY, G.S.; BREGADZE, Yu.I.;  
MAMUL', Ya.V. [deceased]; MYASNYANKINA, Ye.N.

Mutagenic effectiveness of incorporated C<sup>14</sup>. Radiobiologiya 4 no.6:  
804-809 '64. (MIRA 18:7)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.

L 06540-67 EWT(l)/EWT(m)/EWP(j) IJP(c) RM/GW

ACC NR: AT6026959

SOURCE CODE: UR/3175/66/000/028/0144/0154

E/  
80

AUTHOR: Kott, Yu. P.; Lapkin, Yu. P.; Nikiforov, A. G.

B7/

ORG: Institute of Acoustics (Akusticheskiy institut)

TITLE: Digital deep-sea thermometer 10

SOURCE: USSR. Gosudarstvennyy geologicheskiy komitet. Osoboye konstruktorskoye byuro. Geofizicheskaya apparatura, no. 28, 1966, 144-154

TOPIC TAGS: oceanographic equipment, oceanographic instrument, data recording, recording equipment, parametric converter, digital analog converter, binary code, pulse coding, computer coding, telemetry, telemetry equipment, telemetry system, telemetry technique

ABSTRACT: The authors enumerate some of the shortcomings of various underwater data encoding and transmission systems and describe a fully transistorized experimental deep-sea instrument package (see Fig. 1) for recording temperature and pressure (depth) to 2000 m. The following are the unit's characteristics: 1) depth-measurement range, 0—2023 m; 2) depth transducer measurement error 0.8%; 3) temperature-measurement range, -0.594 to +28.97°C; 4) temperature-transducer time constant, 3 sec; 5) container weight, ~100 kg; 6) length of cable on winch drum, 3.5 km; 7) measurement time for one parameter, 3 sec; 8) scale resolution, temperature, 0.0289°C; 9) scale resolution, depth, 1.99 m. Measurement results are put into a ten-bit

Card 1/3

L 06540-67

ACC NR: AT6026959

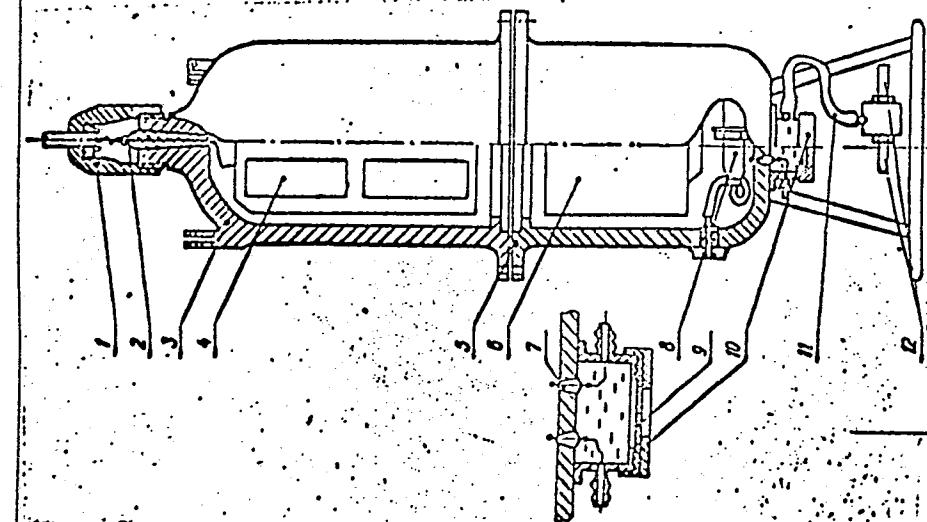


Fig. 1. Deep-sea instrument package

- 1 - Cable coupling;
- 2 & 7 - electrical leads;
- 3 - casing;
- 4 - storage battery;
- 5 - rubber sealing gasket;
- 6 - digital measuring system;
- 8 - pressure transducer;
- 9 - rubber diaphragm;
- 10 - oil cavity;
- 11 - oil-filled polyethylene tubes;
- 12 - resistance thermometer.

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ACC NR: AT6026959

binary code and transmitted by a single-core cable to the deck. These results are then converted into an octal code and recorded on control and punched tapes using an STA-2M program punch for a Minsk-1 computer, and on graph paper by an EPP-09 3-point recording potentiometer. Block diagrams of the measuring system and shipboard recording unit are presented, and detailed descriptions of their operation are given. The container measuring system is said to occupy a space 150-mm in diameter and 210 mm in height. Calibration of the instrument package is performed in calm weather using two types of reversing thermometers at appropriate depths. One stated shortcoming of the package is the disparity in precision between the telemetering system and the potentiometric depth transducer. This disadvantage is to be overcome by using a tensometric pressure transducer. Orig. art. has: 3 figures, 1 table, and 3 graphs.

[LB]

SUB CODE: 08, 09/ SUBM DATE: none/ ORIG REF: 020/ OTH REF: 007

Cord 3/3 8.01.8

KULESH, K.F.; KONEV, F.A. [Koniev, F.A.]; BUGRIM, N.A. [Buhrim, N.A.];  
Prinimali uchastiye: LAPKINA, A.M.; GENDENSHTEYN, Ye.I.

Increasing the production of prepared drugs by lowering the  
number of extemporaneous prescriptions of pharmacies.  
Farmatsev. zhur. 18 no.5:3-7 '63. (MIRA 17:8)

1. Kar'kovskiy nauchno-issledovatel'skiy khimiko-farmatsevti-  
cheskiy institut.

SEMENDYAYEVA, M.Ye.; GUSEVA, T.M.; PONOMAREVA, O.A.; LAPKINA, G.V.;  
MIKIRTUMOV, S.M.

Activity of arginase in the blood serum and points of the liver  
during Botkin's epidemic hepatitis. Vop.med.virus. no.9:275-281  
'64. (MIRA 18:4)

1. Iz laboratorii deystvitel'nogo chlena AMN SSSR prof. Ye.M.  
Tareyeva.

PASHKANG, K.V.; VASIL'YEVA, I.V.; LYUBUSHKINA, S.G.; LAPKINA, N.A.

Landform study of a state farm territory for agricultural purposes. Vest. Mosk. un. Ser. 5: Geog. 17 no.4:6-14 Jl-Ag '62. (MIRA 16:1)

1. Geografo-biologicheskiy fakul'tet Moskovskogo gosudarstvennogo pedagogicheskogo instituta imeni V.I.Lenina.  
(Kaluga Province—Landforms)

LAPKINA, N.A.

"World atlas." Reviewed by N.A. Lapkina. Geog. v shkole 18  
no. 4:74-76 J1-Ag '55. (MIRA 8:10)  
(Atlases)

LAPKINA, N. A.

6-10-12/12

AUTHOR:  
TITLE:  
PERIODICAL:None given  
Bibliography (Bibliografiya)  
Geodeziya i Kartografiya, 1957, Nr 10, pp 79-80 (USSR)

ABSTRACT:

- 1.) Gauss, K. F. "Selected Geodetical Works", Vol. I, 1957, 152 pages.
- 2.) Gaustov, I. "A Daring Research Mountaineer", 1957, 55 pages. Biography of Andrey Vasil'yevich Pastukhov (1858-1899), who climbed the Kazbek in 1889, the Elbrus in 1890 and 1896, and the Ararat in 1893.
- 3.) Gedymin, A. V. "Methodical Indications for the Cartographical Course for the 1. Semester of the Geographical Department of Universities."
- 4.) Yevseyev, S.V. "On Some Regularities of the Field of Gravitation of the Earth and its Importance for Geodesy and Geophysics", 1957, 72 pages, Kiyev, price Roubles 3,80, edition 1500.
- 5.) Committee for Geodesy and Geophysics: Basic theses of the reports presented at the XI General Assembly of the International Union for Geodesy and Geophysics. International Association for Scientific Hydrology of the AN USSR, 1957, 103 pages.
- 6.) Works of the Institute for Geodesic-, Air Survey-, and Cartographical Engineers of Novosibirsk, Vol. VIII, 1957, 121 pages.

Card 1/2

Bibliography

6-10-12/12

- 7.) Works of the Central Scientific Research Institute for Geodesy, Air Survey, and Cartography, fasc. 109. Album of cartographical types of letters, 1957, 192 pages, Roubles 16.-, edition 1000.
- 8.) Zaitov, I. R., Indichenko, I. G. "Stereoscopic Cameras for Purposes of Measuring". Periodical for scientific and applied photography and cinematography, Vol. 2, fasc. 3, 1957, pp 212-218.
- 9.) Lapkina, N. A. "The First Russian Hypsometrical Geographical Maps". Scientific remarks of the Moscow Municipal Institute for Pedagogics imeni V. P. Potemkin, Vol. 66. Works of the Geographical Department fasc. 5, pp 149-158.

AVAILABLE: Library of Congress  
Card 2/2

LAPKINA, Natal'ya Aleksandrovna, prepodavatel'; PORUBINOVSKIY, Aleksandr Mikheyovich, prepodavatel' [deceased]; TSVETKOVA, Galina Aleksandrovna, prepodavatel'; NEKLYUKOVA, Nina Petrovna, prepodavatel'; SOKOLOVA, Varvara Vladimirovna, prepodavatel'; VODOVOZOVA, Mariya Vladimirovna, prepodavatel'; FISHCHEVA, T.V., red.; SMIRNOVA, M.I., tekhn.red.

[Extracurricular field work on geography; teachers' manual] Vneklassnaja rabota po geografii v prirode; posobie dla uchitelei. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1959. 189 p.

(MIRA 12:11)

1. Kafedra obshchey fizicheskoy geografii geograficheskogo fakul'teta Moskovskogo gorodskogo pedagogicheskogo instituta im.V.P. Potemkina (for all except Fishcheva, Smirnova).  
(Geography--Study and teaching)

LAPKINA, Nataliya Aleksandrovna; FISHCHEVA, T.V., red.; ZAYTSEVA, K.F.,  
red. kart; TYUTYUNNIK, S.G., red. kart; KARPOVA, T.V., tekhn.  
red.

[Practical work in topography and cartography; a manual for  
students] Prakticheskie raboty po topografii i kartografii; po-  
sobie dlja studentov. Moskva, Gos. uchebno-pedagog. izd-vo  
M-va prosv. RSFSR, 1961. 119 p. Maps. (MIRA 15:3)

(Topographical surveying--Problems, exercises, etc.)  
(Cartography--Problems, exercises, etc.)

VASIL'YEVA, I.V.; LAPKINA, N.A.; LYUBUSHKINA, S.G.; PASHKANG, K.V.;  
RYCHACOV, G.I.

Leading role of the lithogenic basis in landform formation.  
Vest. Mosk. un. Ser. 5: Geog. 18 no.4:44-47 Jl-Ag'63.

(MIRA 17:2)

1. Geografo-biologicheskiy fakul'tet Moskovskogo gosudarstvennogo  
pedagogicheskogo instituta imeni Lenina.



LAPKINA N. B.

7

CP

Detection of ethylene glycol in forensic analysis. N. B. Lapkina and V. A. Nazarenko (Odessa Regional Forensic Med. Lab.). *Zhur. Anal. Khim.*, 6, 282-4 (1951).—Grind 10 g. of liver (or stomach fluid if death occurred soon after intake of ethylene glycol) with 5 g. of cryst. oxalic acid. Transfer into 100-ml. flask, add 60 ml. benzene, connect upright condenser provided with a calibrated  $H_2O$  trap, and heat on water bath. Heat for 12-15 hrs. until  $H_2O$  in trap does not increase. Transfer 6 ml. of distillate to a test tube, add 5 ml. of 1:8  $H_2SO_4$ , add 5 drops of 5%  $NaIO_4$  or  $KIO_4$  in 5%  $H_2SO_4$ ; after 5 min. add dropwise a satd. soln. of  $H_2SO_4$  to decolorize I, add 4 drops of fuchsin sulfonic acid, and stopper test tube. After 3-30 min. intense red-violet or pink color indicates the presence of ethylene glycol.

M. Hirsch

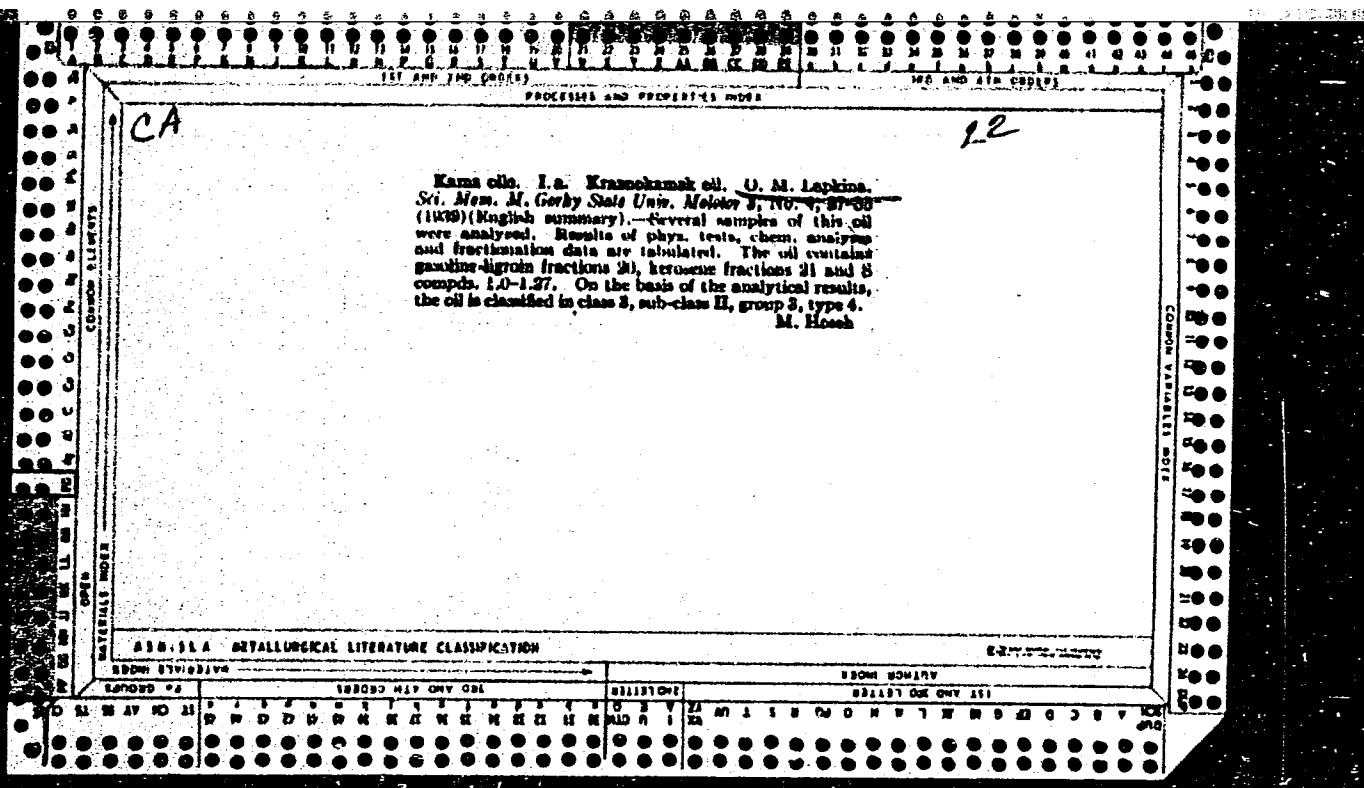
BA LAPKINA N. B.

C-2

2371. Identification reactions for dichloroethane. V. A. Naumenko and N. B. Lapkina (*J. anal. Chem., USSR*, 1952, 7, 92-95)---1 : 2-Dichloroethane can be detected by means of reactions giving ethylene glycol, acetylene, or ethylenediamine. The first two can be used for its detection in aq. solutions. 0.5 ml. of the solution is placed with 0.5 ml. of 10% NaOH in a 1 ml. ampoule and the sealed ampoule is heated at 100° for 1 hr. The contents are then transferred to a tube, 6-7 drops of 1 : 8 aq.  $H_2SO_4$  are added and 2 drops of 5%  $KIO_3$  in  $n-H_2SO_4$ . After 5 min., the liberated I is removed by dropwise addition of  $SO_2$  solution and 2 drops of Schiff's reagent are added. A red colour indicates 1 : 2-dichloroethane. 0.4 mg. can be detected at a dilution of 1 : 1200. 1 : 2-Dibromoethane and allyl bromide interfere. For the formation of acetylene, 0.5 ml. of the 1 : 2-dichloroethane solution and 0.5 ml. of 30% NaOH are introduced into an ampoule with as little mixing as possible. The ampoule is sealed, the contents mixed, and the vessel heated at 100° for 30 min. The liquid is then transferred to a test-tube by means of a capillary pipette, 30% acetic acid is added dropwise to give an acrid reaction in litmus, and the solution is treated with 2 drops of ammonical Cu solution. A red or cherry-red colour with gradual formation of a ppt. indicates 1 : 2-dichloroethane. The Cu solution is prepared by dissolving 1 g. of  $Cu(NO_3)_2$  and 4 g. of hydroxylamine hydrochloride in a small amount of water, addition of 5 ml. of 20% aq. NH<sub>3</sub>, and dilution to 50 ml. after decolorisation. 0.25 mg. can be detected at a dilution of 1 : 2000. 1 : 1-Dichloroethane, 1 : 2-dibromoethane, and 1 : 1 : 2-trichloroethane give similar colours, and 1 : 1 : 2 : 2-tetrachloro- and 1 : 1 : 2 : 3-tetrabromoethane, tribromomethylene, and acetylene dichloride interfere by giving a yellow cloudiness. For the formation of ethylenediamine 1 drop of 1 : 3-dichloroethane (0.001-0.003 ml.) is

heated with 0.5 ml. of 25% aq. NH<sub>3</sub> in a closed ampoule for several hr. The liquid is evaporated to dryness and the residue is dissolved in 1-3 drops of water. One drop is treated with 1 drop of  $KH_2$  solution. The characteristic crystals are observed. 1 : 2-Dibromoethane interferes. No interference occurs in any of the reactions in presence of  $CHCl_3$ ,  $CCl_4$ , monochloroethane, 1 : 1 : 1-trichloroethane, 1 : 1 : 1 : 2-tetrachloroethane, pentabromoethane, or chloral.

G. S. SMITH



CA

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Steric hindrance to organomagnesium reactions. X. Peculiar course of reaction between  $\alpha$ -monochloro-substituted ethers and arylmagnesium halides. New method of preparation of sterically hindered symmetric diarylethane hydrocarbons. I. I. Lapkin and O. M. Lapkina (A. M. Gor'ki State Univ., Molotov). *Zhur. Obshchei Khim.* (J. Gen. Chem.) 21, 108-17 (1951); *cf.* *C.A.* 41, 1219e; 44, 1058a. — While mono- $\alpha$ -substituted  $\text{ArMgX}$  react with  $\text{ClCH}_2\text{OMe}$  or  $\text{CICH}_2\text{OEt}$  normally, the action of di- $\alpha$ -substituted  $\text{ArMgX}$  also yields  $\alpha$ -substituted benzyl chlorides or diarylethanes. From 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>MgBr (from 50 g.

Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>Br and 7 g. Mg) in Et<sub>2</sub>O treated with cooling with 14.8 g. (CICH<sub>2</sub>)<sub>2</sub>O in Et<sub>2</sub>O, refluxed 7 hrs., and worked up in the usual way was isolated 45% (2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>)<sub>2</sub>O, m. 146-7° (sublimed for purification). Similarly, a 3-br. reaction of  $\alpha$ -MeC<sub>6</sub>H<sub>3</sub>MgBr and CICH<sub>2</sub>OMe gave 51% 1-C<sub>6</sub>H<sub>4</sub>-MeOCH<sub>2</sub>C<sub>6</sub>H<sub>3</sub>, b.p. 97°, d<sub>25</sub><sup>20</sup> 0.9777, n<sub>D</sub><sup>20</sup> 1.5040; 1-C<sub>6</sub>H<sub>4</sub>-MgBr gave 55% 1-C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>OMe, b.p. 106-7°, d<sub>25</sub><sup>20</sup> 1.0830, n<sub>D</sub><sup>20</sup> 1.6037, and some unknown higher-boiling products. CICH<sub>2</sub>OEt gave 54% 1-C<sub>6</sub>H<sub>4</sub>CH<sub>2</sub>OEt, b.p. 115-16°, d<sub>25</sub><sup>20</sup> 1.1001, n<sub>D</sub><sup>20</sup> 1.0076. Addn. of 40 g. CICH<sub>2</sub>OMe in Et<sub>2</sub>O to 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>MgBr (from 100 g. Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>Br) with ice cooling and refluxing 7 hrs. gave 40 g. 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>CH<sub>2</sub>OMe, b.p. 93-4°, d<sub>25</sub><sup>20</sup> 0.9484, n<sub>D</sub><sup>20</sup> 1.5100, and 9% 1,2-dimethylcyclohexane (I), m. 117-18° (crude b.p. 130-90°) (from petr. ether); reversing the order of addn. gives 42% of the above ether and 58% 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>Cl, which was not isolated as such but detected by treatment of the crude distillate (b.p. 90-107°) with iso-AmONa in iso-AmOH, which gave 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>CH<sub>2</sub>OMe-iso, b.p. 127-8°, d<sub>25</sub><sup>20</sup> 0.9116, n<sub>D</sub><sup>20</sup> 1.4950. The Et<sub>2</sub>O soln. of RMgBr from 40 g. bromomesitylene decanted from the excess Mg and added to 16 g. CICH<sub>2</sub>OMe, followed by addn. of 2 mole-% CuCl<sub>2</sub> and 2 g. activated Mg (by EtBr), and refluxed 5 hrs., gave 24% I. Addn. of 10 g. CICH<sub>2</sub>OEt to RMgBr (from 40 g. bromomesitylene) gave 10 g. 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>CH<sub>2</sub>OEt, b.p. 80-90°, and about 3 g. I. Addn. of the decanted Et<sub>2</sub>O soln. (from the excess Mg) in the prepn. of durylmagnesium bromide (from 30.4 g. bromodurene, 16 g. Et<sub>2</sub>Br, and 9 g. Mg) to 23 g. CICH<sub>2</sub>OMe in Et<sub>2</sub>O and refluxing 6 hrs. gave no normal ether and chiefly (8 g.) product, b.p. 120-30°, free of OH or OMe groups, apparently RCH<sub>2</sub>Cl (2,3,5,6-tetramethylbenzyl chloride) being formed

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exclusively; if the excess Mg is not removed and the Cl ether is added to the RMgX, there forms 2.1 g. (10%) 1,2-di*tert*-butylcarbinol, m. 234-5° (from MePh). Addn. of 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>OMe (20.5 g.) in xylene to 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>MgBr (from 7 g. Mg and 50 g. RBr) in Et<sub>2</sub>O, removal of the Et<sub>2</sub>O, and refluxing 10 hrs. gave 20% dimethylmethane, m. 132-3°, b<sub>2</sub> 154-6°; no ethane analog was detected. XI. Reaction of esters of formic acid with organomagnesium compounds. I. I. Lapkin and A. I. Golovkova. *Ibid.* 117-23.—The direction of reaction of ArMgX with Et<sub>2</sub>OCH depends on the metallic impurities in Mg which affect only the slow reactions; CoCl<sub>2</sub> has a similar effect. The reaction of Et<sub>2</sub>OCH with 2,4,6-Me<sub>3</sub>C<sub>6</sub>H<sub>3</sub>MgBr made from relatively impure Mg (impurities unstated) has been described before (C.A. 35, 2479); a similar reaction of 0.125 mole ester with 0.25 mole RMgX from a better grade of Mg gave 10.5 g. mixed dimethylcarbinol and dimethylmethane, b<sub>2</sub> 160-260°, spkd. with petr. ether into the less sol. carbinol, m. 148-9° (4 g.), and 1 g. of the methane, m. 133-4°; repetition of the expt. with omission of strong heating or distn. gave 5 and 2.5 g., resp. When 2 mole-% CoCl<sub>2</sub> was added to the RMgX above, the usual procedure gave only the methane deriv., no carbinol being detected. Reaction of RMgX from 42 g. 3-bromocymene with 7.5 g. Et<sub>2</sub>OCH gave about 4 g. di-*tert*-cymylmethane, b<sub>2</sub> 230-50°, m. 222°, and an unknown product, b<sub>2</sub> 200-30°. o-MeC<sub>6</sub>H<sub>4</sub>MgBr (0.25 mole) gave 7 g. di-o-tolylcarbinol, m. 119-20° (from petr. ether), and about 5 g. 1,1,2,2-tetra(o-tolyl)ethane, m. 253-4°; if the heating was extended 10 hrs. the yield of the latter was 14 g. If purer Mg is used, 42.8 g. p-MeC<sub>6</sub>H<sub>4</sub>Br, 6.6 g. Mg, and 9.3 g. Et<sub>2</sub>OCH give 10.5 g. di-p-tolylcarbinol, m. 69-70°, 1.6 g. p,p-bitolyl, m. 119-20°, and 3.4 g. 1,1,2,2-tetra-p-tolyl-ethane, m. 276-7°; if CoCl<sub>2</sub> is added to the reaction mix., the main product is the carbinol and (MeC<sub>6</sub>H<sub>4</sub>)<sub>2</sub>CH<sub>2</sub> does not form. 1-C<sub>6</sub>H<sub>5</sub>MgBr gave di-1-naphthylcarbinol and a smaller amt. of bis(1-naphthylmethyl) ether, and CoCl<sub>2</sub> failed to affect the results. G. M. Kosolapoff

1957

LAPKIN, I.I.; LAPKINA, O.M.

Steric hindrance in organomagnesium reactions. XIV. Peculiar course of reaction between  $\alpha$ -monochloro-substituted ethers and arylmagnesium halides. (MIR 5:9)  
Zhur. Obshchey Khim. 22, 1602-12 '52.  
(CA 47 no.18:9293 '53)

1. A.M.Gor'kiy State Univ., Molotov.

Reactions of halometal micelles. I. Reactions of  
halogenoether alcohols of diglycidyl ethers with water

200 mg of  $\text{LiAlD}_4$  was dissolved in 10 ml of  $\text{CH}_2\text{Cl}_2$ .  
S P 126, 2001. 100 mg of diglycidyl ether was added to the solution.  
Diluted with  $\text{CH}_2\text{Cl}_2$  to 100 ml. The solution was  
treated with 100 mg of  $\text{NaBH}_4$  and 100 mg of  $\text{NaCl}$ .  
After 10 min. the reaction mixture was  
diluted with  $\text{CH}_2\text{Cl}_2$  and  $\text{H}_2\text{O}$ .  
The organic layer was separated and dried  
over  $\text{Na}_2\text{SO}_4$ .

$\text{EtMgBr}$  there was similarly obtained pure  $\text{LiMgCl}_2$ .

$\text{LiMgCl}_2$  was isolated with  $\text{H}_2\text{O}$ .

LAPKINA, O.M.

LAPKIN, I.I.; LAPKINA, O.M.

Reactions of metal-halide alcoholates. Part 1. Reactions of halide magnesium alcoholates of diarylcarbinols with esters. Zhur. ob.khim. 25 no.2:298-304 F '55. (MLRA 8:6)

1. Molotovskiy Gosudarstvennyy universitet.  
(Alcoholates) (Esters)

LAPKINA, O.M.

LAPKIN, I.I.; LAPKINA, O.M.

Reaction of metal halide alcoholates. Part 3. Control of magnesium organic reactions. Zhur.ob.khim.25 no.5:947-950 My '55.  
(MIRA 8:10)

1. Moskovskiy Gosudarstvennyy universitet  
(Magnesium organic compounds)

LAPKINA O. M.

79-2-25/64

AUTHORS: Lapkin, I. I. , Lapkina, O. M. , Rybakova, M. N.

TITLE: Reactions of Metal Halide Alcohoholates (Reaktsii galoidmetallalkogolyatov) V. Mechanism of the Interaction of Magnesium Halide Carbinolates With Esters (V. Mekhanizm vzaimodeystviya galoidmagniykarbinolyatov so slozhnymi esirami)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 2, pp. 391 - 398 (USSR)

ABSTRACT: The authors began the present work with the aim of determining the number of orthosubstituents in which hydrocarbons of the type of diarylmethane form instead of haloiodides. The investigations carried out with magnesium halide diarylcarbinolates with a gradual increase in the number of orthosubstituents showed that in case of a number of substituents smaller than four this reaction leads to the formation of diarylmethylhaloiodides. It is assumed that the formation of diarylmethanes will take place in three secondary and tertiary radicals which are, however, more complicated than methyl. The problem was, however, not yet solved by the authors. Oxalic acid esters react with magnesium halide diarylcarbinolates analogous to formic acid esters. A deviation is only observed in the case of magnesium halide diarylcarbinolate with 4 occupied ortho-positions, as the carbinol is regenerated in the separation of the products of their interaction with diethyloxalate, water and

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79-2-25/64

Reactions of Metal Halide Alcoholates. V. Mechanism of the Interaction of Magnesium Halide Carbinolates With Esters

acid. In connection with the results of the present and earlier works the problem concerning the mechanism of the reaction of magnesium halide carbinolates with esters (references 1-3) rises. Its solution might contribute toward anticipating new forms of transformation of magnesium halide carbinolates as well as toward explanation of the nature of numerous anomalies which are observed in organic magnesium reactions. The occurrence of anomalies is the consequence of a side reaction between the initially formed magnesium halide alcoholates and esters. The authors found the conditions for the elimination of haloidides by means of interaction of magnesium halide diarylcarbinolates with esters. In this connection the yield of the haloidides is as well dependent on the nature of diarylcarbinoles as on the nature of the esters. Numerous tests for the investigation of the reaction of the magnesium halide phenolates and magnesium halide naphthalates with esters showed that the phenolates and naphthalates, in contrast to the alcoholates, have no interaction with esters. Summary: 1) The authors suggested the investigation of the reaction of magnesium halide diarylcarbinolates with esters. It was found that only the magnesium halide diarylcarbinolates with formic acid esters form diarylmethanes in

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79-2-25/64

Reactions of Metal Halide Alcohoholates. V. Mechanism of the Interaction of Magnesium Halide Carbinolates With Esters

which all four ortho-positions are occupied. In the case of a smaller substitution these reactions lead to the formation of diarylmethylhaloiodides. 2) It was shown in new examples that in the interaction with esters of malonic acid magnesium halide diarylcarbinolates are converted to diarylmethylethers. 3) It was found that magnesium bromide phenolates and magnesium bromide naphthalates do not react with esters of formic, oxalic, sulfuric and succinic acid in the case of equal molecular quantities under assumed reaction conditions. 4) The mechanism of the interaction of magnesium halide alcohoholates and esters was investigated. There are 1 table, and 11 references, 7 of which are Slavic.

ASSOCIATION: State University, Perm' (Permskiy gosudarstvennyy universitet)

SUBMITTED: January 8, 1957

AVAILABLE: Library of Congress

Card 3/3

AUTHORS:

Lapkin, I. I., Lapkina, O. M.

79-28-4-25/60

TITLE:

Steric Hindrances in Organomagnesium Reactions  
(Prostranstvennyye prepyatstviya pri magniyorganicheskikh reaktsiyakh).XIX. The Synthesis of Esters of  $\alpha$ -(4-Alkoxynaphthyl-1)  
Lactic Acids (Sintez slozhnykh estirov  $\alpha$ -(4-alkoksinaftil-1)-molochnykh kislot)

PERIODICAL:

Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 4,  
pp. 957-960 (USSR)

ABSTRACT:

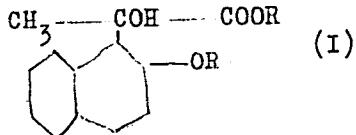
In the previous papers (References 1 and 2) it was shown that only the ketone group reacts with di-ortho-substituted arylmagnesium halides in the interaction of the esters of  $\alpha$ -ketonic acids (being comparatively weak in comparison to oxalic acid (Reference 3)). The ester group does not even react at a considerable excess of organomagnesium compounds. It was also shown that the mixed organomagnesium compounds which are obtained from  $\alpha$ -bromo- $\beta$ -alkoxynaphthalenes, and which as compounds are

Card 1/3

Steric Hindrances in Organomagnesium Reactions.  
XIX. The Synthesis of Esters of  $\alpha$ -(4-Alkoxyxaphthyl-1)  
Lactic Acids

79-28-4-25/60

stereochemically almost equivalent to di-ortho-substituted arylmagnesium halides, only react with the ketone group. The organomagnesium compounds which are obtained from 1-bromo-4-alkoxyxaphthalenes are stereochemically analogous to mono-ortho-substituted arylmagnesium halides. For this reason they react identical to the latter in reactions with esters of  $\alpha$ -ketonic acids (pyroacemic acid) (Reference 1), that is to say, they react with the more active ketone group. This circumstance can be utilized for a convenient production of the esters of  $\alpha$ -(4-alkoxyxaphthyl-1) lactic acids, with the general formula (I).



This is confirmed by the experimental results given in a table.

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Steric Hindrances in Organomagnesium Reactions.  
XIX. The Synthesis of Esters of  $\alpha$ -(4-Alkoxyphthalyl-1)  
Lactic Acids

79-28-4-25/60

There are 1 table and 3 references, all of which are  
Soviet.

ASSOCIATION: Permskiy gosudarstvennyy universitet (Perm' State  
University)

SUBMITTED: March 2, 1957

Card 3/3

KORSHUNOV, B.G.; LAPKINA, Ye.D.

The system  $\text{MoCl}_5$  -  $\text{AlCl}_3$  -  $\text{NaCl}$ . Zhur. neorg. khim. 8  
no.11:2585-2588 N '63. (MIRA 17:1)

l. Moskovskiy institut tonkoy khimicheskoy tekhnologii  
imeni Lomonosova.

LAPKO, A.; YURKO, I.

Long runs on methane between repairs. Avt.transp. 32 no.3:38  
Mr '54. (MLRA 7:8)  
(Automobiles--Engines (Compressed gas))

DELONE, Boris Nikolayevich; LAPKO, A. P., redaktor; AKHIEMOV, S. N.,  
tekhnicheskiy redaktor

[Elementary proof of the noncontradictoriness of Lobachevskii  
planimetry] Elementarnoe dokazatel'stvo neprotivorechivosti  
planimetrii Lobachevskogo; (k stoletiiu so dnia smerti Lobachev-  
skogo). Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 139 p.  
(Geometry, Non-Euclidean)

(MLRA 9:11)

"LKO, A.F.

KHOVANSKIY, Aleksey Nikolayevich; LAPKO, A.P., redaktor; TUMARKINA,  
N.A., tekhnicheskiy redaktor

[Application of continued fractions and their generalizations  
to problems of approximate analysis] Prilozhenie tsyprnykh  
drobej i ikh obobshchenii k voprosam priblizhennogo analiza.  
Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 203 p.

(Fractions, Continued)

(MLRA 10:4)

LYUSTERNIK, Lazar' Aronovich; LAPKO, A.P., redaktor; NEGRIMOVSKAYA, P.A.,  
tekhnicheskiy redaktor

[Convex figures and polyhedra] Vypuklye figury i mnogogranniki.  
Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956, 212 p.  
(Polyhedra)

(MLRA 10:1)

*, H. F.*  
NORDEN, A. P., redaktor; LAPKO, A. P., redaktor; MURATOVA, N. Ya., tekhnicheskiy  
redaktor.

[Foundations of geometry; a collection of classic works on Lobachev-  
skii's geometry and the development of his ideas] Uz osnovaniakh  
geometrii; sbornik klassicheskikh rabot po geometrii Lobachevskogo  
i razvitiu ee idei. Red.i vstup.stat'ia. A.P. Norden. Moskva, Gos.  
izd-vo tekhniko-teoret.lit-ry, 1956. 527 p.  
(Geometry, Non-Euclidean)

*LAPKO, A.F.*  
ARGUNOV, Boris Ivanovich; SKORNYAKOV, Lev Anatol'yevich; LAPKO, A.F., red.;  
AKHIEZER, S.N., tekhn.red.

[Configuration theorems] Konfiguratsionnye teoremy. Moskva, Gos.  
izd-vo tekhniko-teoret. lit-ry, 1957. 37 p. (Populiarnye lektsii po  
matematike, no.24).  
(Configurations) (MIRA 11:2)

LAPKO, A.F.

KHRENOV, Leonid Sergeyevich; LAPKO, A.F., red.; BRUDNO, K.F., tekhn.red.

[Small calculating machines; a concise manual] *Malye vychislitel'-nye mashiny; kratkoe spravochnoe rukovodstvo*. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1957. 154 p. (MIRA 11:2)  
(Calculating machines)

LAPKO, A.F.

SIMONOV, Nikolay Ivanovich; LAPKO, A.F., redaktor; YERMAKOVA, Ye.A.,  
tekhnicheskiy redaktor

[Euler's applied methods of analysis] Prikladnye metody analiza u  
Eilera. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry, 1957. 167 p.  
(Differential equations) (MIR 10:10)  
(Calculus integral)

LAPKO, A.F.

NEMYTSKIY, Viktor Vladimirovich, inzhener; SIUDSKAYA, Mariya Ivanovna;  
CHERKASOV, Andrey Nikolayevich; LAPKO, A.F., redaktor; GAVRILOV,  
S.S., tekhnicheskiy redaktor.

[A course in mathematical analysis] Kurs matematicheskogo analiza.  
Pod obshchei red. V. Nemytskogo. Izd. 3-e, perer. Moskva, Gos. izd-vo  
tekhniko-teoret. lit-ry. Vol. 1. 1957. 486 p. (MLRA 10:6)  
(Calculus)

LAPKO, A. F.

AUTHOR: LAPKO, A. F., LYUSTERNIK, L.A. 42-6-3/17

TITLE: Mathematical Congresses and Conferences in the USSR (Matematicheskiye s"yezdy i konferentsii v SSSR)

PERIODICAL: Uspekhi Matematicheskikh Nauk, 1957, Vol.12, Nr.6, pp.47-130 (USSR)

ABSTRACT: The authors give a survey on mathematical congresses which have taken place in the Soviet Union during the last 40 years. The paper consists of ten paragraphs. §1 Introduction and general survey; §2 Russian Mathematical Congress, Moscow April 27-May 4, 1927; §3 First Union Congress of Mathematicians, Kharkov 1930; §4 Second Union Congress, June 24-30, 1934; §5 First international conference on tensorial differential geometry, Moscow, May 17-23, 1934 and first international topological conference, Moscow 1935; §6 The attempt of forming a union partnership of mathematicians and the periodical "Uspekhi matematicheskikh nauk" during the period before the war; §7 The Congresses between 1935-1941; §8 The years of war and after the war 1941-1949; §9 The conferences of the years since 1950; §10 Third Union Congress of Mathematicians June 25-July 4, 1956.  
62 Soviet references are quoted.

AVAILABLE: Library of Congress  
Card 1/1

USPENSKIY, Vladimir Andreyevich; LAPKO, A.F., red.; KRYUCHKOVA, V.N., tekhn.red.

[Application of mechanics to mathematics] Nekotorye prilozheniya  
mekhaniki k matematike. Moskva, Gos. izd-vo fiziko-matematicheskoi  
lit-ry, 1958. 47 p. (Populjarnye lektsii po matematike, no. 27).  
(MIRA 11:11)

(Mathematics)  
(Mechanics)

AUTHOR: LAPKO, A. F., LYUSTERNIK, L.A.

42-1-12/13

TITLE: Letter to the Editor (Pis'mo v redaktsiyu)

PERIODICAL: Uspekhi Matematicheskikh Nauk, 1958, Vol. 13, Nr. 1, p. 239 (USSR)

ABSTRACT: This paper contains corrections to the publication on  
Mathematical Congresses in the Soviet Union (Uspekhi  
Matematicheskikh Nauk, 1957, Vol.12, Nr.6, pp.47-130).

AVAILABLE: Library of Congress  
Card 1/1 1. Mathematics-Errors

AUTHORS: Lapko, A.F., and Lyusternik, L.A. SOV/42-13-5-2/15

TITLE: Mathematical Congresses and Conferences in the USSR (Matematicheskiye s"yezdy i konferentsii v SSSR)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 5, pp 121-166 (USSR)

ABSTRACT: One year ago, on the occasion of the 40<sup>th</sup> anniversary of the revolution in 1917, the authors [Ref 1] published a survey on the congresses which have taken place in the Soviet Union. Numerous addresses of readers caused the authors to publish the present supplementary report. The paper doubtless valuable for the history of Soviet mathematics, has also a certain interest for the western reader: From the resolutions passed on several congresses appears clearly the effective leading part of the Academy of Sciences which pursues a systematic plan of research projects and which incessantly cares about the performance of them.  
There are 90 Soviet references.

Card 1/1

SOV/42-13-5-10/15

AUTHOR: Lapko, A.F.

TITLE: Conference on Computer Mathematics and on the Application of Computer Techniques (Soveshchaniye po vychislitel'noy matematike i primenenuyu sredstv vychislitel'noy tekhniki)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 5, pp 211-214 (USSR)

ABSTRACT: The conference organized by the AS AzerSSR, the Computing Center of the AS USSR and the Institute of Automation and Telemechanics AS USSR, took place in Baku on February 5-8, 1958, with the participation of the representatives of 7 Soviet republics. The work of the Conference was divided into two sections, one relating to computer mathematics and the other to computer techniques. The fifty papers submitted in both sections and their authors are listed.

Card 1/1

KHRENOV, Leonid Sergeyevich; LAPKO, A.F., red.; GAVRILOV, S.S.,  
tekhn.red.

[Small calculating machines; brief reference manual]  
Malye vychislitel'nye mashiny; kratkoe spravochnoe  
rukovedstvo. Izd.2., dop. Moskva, Gos.izd-vo fiziko-  
matem.lit-ry, 1959. 183 p. (MIRA 12:7)  
(Calculating machines)

BALK, Mark Benovich; LAPKO, A.F., red.; KRYUCHKOVA, V.N., tekhn.red.

[Geometrical applications of the concept of the center of gravity] Geometricheskie prilozheniya poniatija o tsentre tiashesti. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959.  
230 p. (Biblioteka matematicheskogo krushka, no.9) (MIRA 12:7)  
(Center of mass)

KON-POSSEN, Stefan Emmanuilovich; YEFIMOV, N.V., red.; LAPKO, A.P.,  
red.; MURASHOVA, N.Ya., tekhn.red.

[Some general problems in differential geometry] Nekotorye  
voprosy differentsial'noi geometrii v tselom. Pod red. N.V.  
Efimova. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 303 p.  
(MIRA 13:2)

(Geometry, Differential)

SHIROKOV, Petr Alekseyevich, prof. [deceased]; SHIROKOV, Aleksandr Petrovich; NORDEN, A.P., red.; LAPKO, A.F., red.; YERMAKOVA, Ye.A., tekhn.red.

[Affine differential geometry] Affinnaia differentsial'naia geometriia. Pod red. A.P.Nordena. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1959. 319 p. (MIRA 12:8)

1. Kazanskiy universitet (for P.A.Shirokov).  
(Geometry, Differential)

SMIRNOV, Nikolay Vasil'yevich; DUNIN-BARKOVSKIY, Igor' Valerianovich;  
LAPKO, A.F., red.; KRYUCHKOVA, V.N., tekhn.red.

[Concise course on mathematical statistics for technical  
applications] Kratkii kurs matematicheskoi statistiki dlia  
tekhnicheskikh prilozhenii. Moskva, Gos.izd-vo fiziko-matem.  
lit-ry, 1959. 436 p. (MIRA 13:2)  
(Mathematical statistics)

KUROSH, A.G., glavnyy red.; BILYUTSKOV, V.I., red.; BOLTYANSKIY, V.G.,  
red.; DYM'KIN, Ye.B., red.; SHILOV, G.Ye., red.; YUSHKEVICH,  
A.P., red.; LAPKO, A.F., red.; AKHIEZER, S.N., tekhn.red.

[Mathematics in the U.S.S.R. during the forty years from 1917  
to 1957] Matematika v SSSR za sорok let, 1917-1957. V dvukh  
tomakh. Moskva, Gos.izd-vo fiziko-matem.lit-ry. Vol.1. [Survey  
articles] Obzornye stat'i. 1959. 1002 p. (MIRA 12:5)  
(Mathematics)

16(1)

AUTHORS: Lapko, A.F., and Lyusternik, L.A.

SOV/42-14-2-19/19

TITLE: Correction

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 2, p 262 (USSR)

ABSTRACT: In the paper "Mathematical Congresses and Conferences in the USSR" in Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 5 the lecture of L.A. Aksent'yev is not mentioned.

Card 1/1

USCOMM-DC-61,422

16(1)

AUTHOR: Lapko, A.F. SOV/42-14-4-26/27

TITLE: Scientific Technical Conference in the MVTU

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 4, pp 245-246 (USSR)

ABSTRACT: On March 25-26, 1959 a conference of the Chairs of the Moscow High Schools took place in the Moscow Higher Technical School imeni N.E.Bauman. In the mechanical-mathematical section (presidency: V.V.Dobronravov) lectures were given by I.N.Veselovskiy, Yu.Ye.Zakharov, K.A.Zgorzhei'skiy, V.V.Ignatenko, Ya.G.Kovalev, P.V.Orekhov, I.A.Panichkin, S.A.Frolov, and R.Ya.Shostak.

Card 1/1

MARGULIS, Boris Yevseyevich, LAPKO, A.F., red.; YERNAKOVA, Ye.A.,  
tekhn.red.

[Systems of linear equations] Sistemy lineinnykh uravnenii.  
Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 94 p. (Populiar-  
nye lektsii po matematike, no.34). (MIRA 14:2)  
(Linear equations)

VOLYNSKIY, Boris Abramovich; BUKHMAN, Vadim Yevgen'yevich; LYUSTERNIK, L.A., red.; LAPKO, A.P., red.; TUMARKINA, N.A., tekhn.red.

[Models for solving boundary problems] Modeli dlja reshenija kraevykh zadach. Pod red. L.A.Liusternika. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1960. 451 p. (MIRA 13:?)

1. Chlen-korrespondent AN SSSR (for Lyusternik).  
(Boundary value problems)  
(Electromechanical analogies)

KAGAN, Veniamin Fedorovich [1869-1953]; SHESTOPAL, G.A [translator]; BRON-SHTEYN, I.N. [translator]; LOPSHITS, A.M., red.; RASHEVSKIY, P.K., red.; LAPKO, A.F., red.; KRYUCHKOVA, V.N., tekhn. red.

[Subprojective spaces] Subprojektivnye prostranstva. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 218 p. (MIRA 14:6)  
(Projection) (Spaces, Generalized)

DANILOV, V.L.; IVANOVA, A.N.; ISAKOVA, Y.K.; LYUSTERNIK, L.A.; SALEKHOV, G.S.; KHOVANSKIY, A.N.; TSLAF, L.Ya.; YANPOL'SKIY, A.R., dots.; LAPKO, A.F., red.; KRYUCHKOVA, V.N., tekhn. red.

[Mathematical analysis; functions, limits, series, continued fractions] Matematicheskii analiz; funktsii, predely, rady, tsepmye drobi. Moscow, Gos. izd-vo fiziko-matem. lit-ry, 1961. 439 p. (MIRA 14:8)

1. Chlen-korrespondent AN SSSR (for Lyusternik).  
(Mathematical analysis)

RUMSHISKII, Lev Zimonovich; LAFKO, A.F., red.; KRYUCHKOVA, V.N., tekhn.  
red.

[Laboratory computation manual for a course of higher  
mathematics for institutions of higher learning] Vychi-  
slitel'nyi laboratornyi praktikum po kursu vysshei matematiki  
dlia vtuzov. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1961. 137 p  
(Mathematics—Study and teaching) (MIR▲ 14:9)

DITKIN, Vitaliy Arsen'yevich; PRUDNIKOV, Anatoliy Platonovich; LYUSTERNIK, L.A., red.; YANPOL'SKIY, A.R., red.; LAPKO, A.F., red.; BRUDNO, K.F., tekhn. red.

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(Transformations (Mathematics)) (Calculus, Operational)

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SKANAVI, M.I.; YANPOL'SKIY, A.R. Prinimali uchastiye:  
TRENOGIN, V.A.; BITYUTSKOV, V.I.; LAPKO, A.F., red.;  
KOLESNIKOVA, A.P., tekhn. red.

[Mathematical analysis; differentiation and integration] Ma-  
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1961. 350 p. (MIRA 15:2)

(Mathematical analysis)  
(Calculus, Differential) (Calculus, Integral)

RUMSHISKIY, Lev Zimonovich; LAPKO, A.F., red.; KRYUCHKOVA, V.N.,  
tekhn. red.

[laboratory manual on computer techniques for a course in higher  
mathematics for students of institutions of higher technical  
education] Vychislitel'nyi laboratornyi praktikum po kursu  
vysshei matematiki dlja vtuzov. Izd. 2, stereotipnoe. Moskva,  
Fizmatgiz, 1963. 137 p. (MIRA 16:6)  
(Electronic computers--Handbooks, manuals, etc.)

GRADSHTEYN, Izrail' Solomonovich; RYZHIK, Iosif Moiseyevich; Prinimali  
uchastiye: GERONIMUS, Yu.V.; TSEYTIN, M.Yu.; LAPKO, A.F.,  
red.; KRYUCHKOVA, V.N., tekhn. red.

[Tables of integrals, sums, series, and products] Tablitsy in-  
tegralov, summ, riadov i proizvedenii. Izd.4., perer. pri  
uchastii I.U.V.Geronimusa i M.I.U.TSeitlina. Moskva, Gizmatgiz,  
1962. 1100 p. (MIRA 15:9)

(Mathematics—Tables, etc.)

ZELENIN, Yevgeniy Vladimirovich; LAPKO, A.F., red.; RYVKIN, A.Z.,  
red.; BRUDNO, K.F.

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(MIRA 16:10)

(Mechanical drawing)

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(Functions)

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R000928620010-3

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Brief news. Usp. mat. nauk 19 no.3:247-250 My-Je '64.

(MIRA 17:10)

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Conference "Lapkosov meetings". Usp. mat. nach 19 no.4:233-234  
'64. (MTR 17:10)

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[Method of secondary quantization] Metod vtorichnogo  
kvantovaniia. Moskva, Nauka, 1965. 235 p.  
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MIKHLIN, S.G.; SMOLITSKIY, Kh.L.; LYUSTERNIK, L.A., red.;  
YANPOL'SKIY, A.R., red.; LAPKO, A.F., red.

[Approximate methods of solving differential and integral  
equations] Priblizhenye metody resheniya differentsial'-  
nykh i integral'nykh uravnenii. Moskva, Nauka, 1965.  
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SMIRNOV, Nikolay Vasil'yevich; DUNIN-BARKOVSKIY, Igor' Valerianovich;  
LAPKO, A.F., red.

[Course in probability theory and mathematical statistics  
for technical applications] Kurs teorii veroyatnostei i ma-  
tematicheskoi statistiki dlja tekhnicheskikh prilozhenii.  
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(MIRA 18:5)

1. LAPKO, A. Ya.
2. USSR (600)
4. Brandy
7. Causes for losses in cognac during storage. Vin.SSSR 12 no. 11, 1952.
9. Monthly Lists of Russian Accessions, Library of Congress, March 1953, Unclassified.

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L 10749-67 EWP(m)/EWP(w)/EWP(v)/EWP(k) IJP(c) EM  
ACC NR: AR6016449 (N) SOURCE CODE: UR/0124/65/000/012/A016/A016

50

AUTHOR: Reutskiy, V. A.; Lapko, G. A.

TITLE: Simulation of the motion of a rigid rotor on the "Ural-I" digital computer

SOURCE: Ref. zh. Mekhanika, Abs. 12A153

REF SOURCE: Sb. Primeneniye matem. metodov i vychisl. tekhn. v gorn. dele. M., Nedra, 1965, 30-34

TOPIC TAGS: gyroscope system, computer application, digital computer/ Ural-I digital computer

ABSTRACT: The authors consider the motion of a rigid rotor with securely fastened discs of large diameter. The shaft is supported by two elastically deformed bearings. The state of balance of the machine is analyzed as a function of its dynamic parameters. The mathematical relationships are analyzed on the "Ural-I" electronic computer. [Translation of abstract]

SUB CODE: 17, 09

Card 1/1 570

LAPKO, K. K.

LAPKO, K.K.

peculiarities of the course of pregnancy, labor and early postpartum in obese women [with summary in English]. Akush. i gin. 33 no.4: 29-34 Jl-Ag '57. (MIRA 10:11)

1. Iz akushersko-ginekologicheskoy kliniki (zav. kafedroy - prof. I.F.Zhordania) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

(PREGNANCY, compl.

statist. in obese women)

(LABOR, compl.

same)

(OBESITY, compl.

pregn., labor & postpartal disord. caused by obesity,  
statist.)

LAPKO, K.K., Cand Med Sci--(diss) "Peculiarities of the course of pregnancy, parturition, and the early post-partum period in obese women." Simferopol', 1958. 16 pp (Second Mos State Med Inst im N.I.Pirogov), 250 copies (KL,47-58, 135)

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(PREGNANCY) (MIRA 13:9)

LAPKO, M.

[Dnepropetrovsk Economic Administrative District] Dnipropetrov's'kyi  
ekonomichnyi administrativnyi raion. Dnipropetrov's'k, Dnipro-  
petrov's'ke obl. vyd-vo, 1959. 104 p. (MIRA 13:2)  
(Dnepropetrovsk Province--Economic conditions)

LAPKO, M.M.

Recognition of colienteritis in children. Ped., akush. i gin. 23 no.3;  
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1. Klinicheskaya detskaya bol'nitsa No.1 g. Simferopol' (glavnyy vrach -  
K.K.Khoteyeva [Khotieeva, K.K.]), nauchnyy rukovoditel' - zaveduyushchiy  
kafedroy detskikh bolezney Krymskogo meditsinskogo instituta dotsent  
K.V.Shalupenko.

(INTESTINES--DISEASES) (ESCHERICHIA COLI)

LAPKO, M.M.

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no.1:96-100 Ja '64. (MIRA 17:12)

1. Simferopol'skaya klinicheskaya detskaya bol'nitsa No.1 (glavnnyy  
vrach L.P. Lysova, nauchnyy rukovoditel' - dotsent K.V. Shalupenko).

LAPKO, M.V.

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(MIRA 8:10)

(Physical geography--Study and teaching)

LAPKO, M. V. Cand Geog Sci -- (d ss) "The Dnepropetrovskaya Oblast of the UkSSR (Economic and geographic description)." Khar'kov, 1958. 18 pp (Min of Higher Education UkSSR. Khar'kov State Univ im A. M. Gor'kiy), 110 copies (KL, 14-58, 110)

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LAPKO, M.P.; SMIHOVA, N.P., red.; FEDOTOVA, A.P., tekhn. red.

[Exercise book for independent work in the physical geography of the continents] Tetrad' dlia samostoiatel'nykh rabot po fizicheskoi geografii chastei sveta. Moskva, Gos. uchebno-pedagog. izd-vo M-va prosv. RSFSR, 1958. 72 p.

(MIRA 11:7)

(Physical geography)

LAPKO, M.V.

"Problems of production and technology in a course on the economic geography of the U.S.S.R." by M.M.Shtepa. Reviewed by M.V. Lapko.  
Geog. v shkole 23 no.4:91 Jl-Ag '60. (MIRA 13:10)  
(Economic geography--Study and teaching)  
(Shtepa, M.M.)

LapKova, L.B.

AID F - 2270

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 15/19

Authors : Salchinkin, A. P., L. B. Lapkova and A. P. Arrestenko

Title : Oxidation of furfural to succinic acid

Periodical: Zhur. prikl. khim., 28, no.2, 216-219, 1955

Abstract : Oxidation of furfural in vapor phase resulted in the formation of tarry products. Oxidation of furfural in liquid phase (with a 30% solution of hydrogen peroxide) resulted in the formation of succinic acid. Six refs. (3 Russian: 1932-1951).

Institution: Chair of Organic, Physical, and Colloid Chemistry of the Kuban Institute of Agriculture

Submitted : Jl 14, 1953

LAPKO, Mikhail Vladimirovich; RUFIN, Valentin Andreyevich; TVERDOKHLEBOV,  
Ivan Trofimovich [Tverdokhliebov, I.T.]; KIR'YAKOV, Iu.F., red.;  
LEBEDEV, I.P. [Lebedev, I.P.], red.kart; GORBUNOVA, N.M.  
[Horbunova, N.M.], tekhn. red.

[Crimean Province; geographical study] Kryms'ka oblast'; geo-  
grafichnyi narys. Kyiv, Derzh. uchbovo-pedagog. vyd-vo  
"Radians'ka shkola," 1961. 138 p. (MIRA 15:4)  
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(Ukraine--Geography) (Dibrova, A. T.)

LAPKO, Vladimir, inz., redovni profesor (Beograd, Podrinjska 1a)

Distance between the railroad stations. Tehnika Jug 17  
no.11:Suppl.: Saobracaj 9 no.11:2187-2193 N '62.

1. Gradevinski fakultet Univerziteta u Beogradu.